

Appl. No. 10/707,802
Amdt. dated July 25, 2005
Reply to Office action of May 05, 2005

Amendments to the Specification:

Please replace paragraph [0005] with the following amended paragraph:

Referring to FIG. 1, a conventional projection TV 10 is mounted inside a casing 11. An
5 optical engine 12 mounted at a bottom of the casing 11 generates image beams that are
projected on a front reflector 13, reflected to an upper reflector 14 and then reflected to a
front screen 15 to display image frames. In order to dissipate heat generated from the
high-power light source and other electronic components in the optical engine 12 so as
not to accumulate the heat in the rear projection TV 10, a plurality of blowholes (not
10 shown) is formed through ~~[[he]]~~ the casing 11 to dissipate the heat by convection. The
blowholes not only cannot prevent dusts from polluting the optical components, but also
has limited dissipation effect due to internal heat recycle. Furthermore, strayed light
from high-brightness image beams transmits through the blowholes, adversely affecting
the display quality.

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Please replace paragraph [0020] with the following amended paragraph:

The TV 20 ha a casing 25. An optical engine 26 is mounted at a bottom of the casing 25.
[[An]] A light source 261 of the optical engine 26 is mounted at one side of the optical
20 engine 26. A spacer 27 is mounted near the light source 261 so that the spacer 27 and
the casing 25 define the ventilating chamber 21 at a lower part of the TV 20. A
supporting frame 271 is attached on an upper portion of the spacer 27 to support the
spacer 27. A through hole 272 is formed through the spacer 27 near the light source 261.
The outlet 24 is formed through the casing 25 to correspond to the through hole 272.
25 Another supporting frame 241 is mounted inside the casing above the outlet 24. A
cover 28 is placed on the supporting frames 271, 241 over the ventilating chamber to
isolate light from the optical engine 26 and hot air from the light source 261.

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Please replace paragraph [0022] with the following amended paragraph:

Referring to FIG. 4, heat coming from the optical engine 26 and electronic components (not shown) is conducted along the spacer 27 and sucked by the fan 22 mounted near the
5 heat source to drain out of the fence 29 along a curved path of the conduit 23. Thereby, heat accumulation in the TV 20 or the ventilating chamber 21 and heat recycle can be prevented to increase heat dissipation inside the TV 20. Furthermore, the fan 22 is mounted on the spacer 27, not externally exposed. The conduit 23 and the ventilating chamber [[29]] 21 can effectively isolate any noise generated by the rotation of the fan
10 22.

Please replace paragraph [0023] with the following amended paragraph:

The bent shape of the conduit 23 blocks the light [[26]] from externally transmitting via
15 the fan 22 and the fence 29. Furthermore, the conduit 23 and the fence 29 having downward-declining blades, in conjunction with the ventilating chamber, have great contribution in stopping the entry of dusts into the optical engine 26 and preventing contamination of optical components. Thereby, quality of projected images can be kept as high as possible. The casing 25 has a backward shrunken side adjacent to the
20 ventilating chamber. The fence 29 is mounted on the backward shrunken side of the casing 25 so that the fence 29 does not contact any object next to the casing 25. Therefore, the fence 29 discharges the heat smoothly.